Substitute for PTO-1390 (Rev. 07-2005) "Transmittal Letter to the United States Designated/Elected Office(DO/EO/US)Concerning a Submission Under 35 U.S.C. 371" Approved for use through 3/31/2007. OMB 0651-0021

U. S. PATENT AND TRADEMARK OFFICE		ATTORNEY'S DOCKET NUMBER	
U.S. DEPARTMENT OF COMMERCE		21421P10/573764	
DESIGNATED/ELECTED OFFICE (DO/EO/US)		U.S. APPLICATION NO. (If known, see 37 CFR 1.5)	
		To Be Assigned	
INTERNATIONAL APPLICATION NO.	INTERNATIONAL FILING DATE	PRIORITY DATE CLAIMED	
PCT/US2004/031820	28 September 2004	2 October 2003	
TITLE OF INVENTION			
	HA 11-2, ENCODED PROTEINS AND MI	ACTIVATED CALCIUM CHANNEL PROTEINS, ETHODS OF USE THEREOF	
APPLICANT(S) FOR DO/EO/US			
MENGHANG XIA AND MARK E. V	VILLIAMS		
Applicant herewith submits to the other information:	United States Designated/Elected Of	fice (DO/EO/US) the following items and	
1. This is a FIRST submission	of items concerning a filing under 35 U	J.S.C. 371.	
	SEQUENT submission of items concer		
3. This is an express request to begin national examination procedures [35 U.S.C. 371(f)]. The submission must			
include items (5), (6), (9) and			
4. The US has been elected (PC	CT Article 31).		
5. A copy of the International A	Application as filed [35 U.S.C. 371(c)(2	2)]	
a. is attached hereto (required only if not communicated by the International Bureau).			
b. has been communicat	ed by the International Bureau.		
c. X is not required, as the	application was filed in the United Sta	tes Receiving Office (RO/US).	
6. An English language translation a. is attached hereto	tion of the International Application as	filed [35 U.S.C. 371(c)(2)].	
b. has been previously s	ubmitted under 35 U.S.C. 154(d)(4).		
	of the International Application under Pequired only if not communicated by the	- · · · · · · · · · · · · · · · · · · ·	
b. have been communicated	ated by the International Bureau.		
	however, the time limit for making sucl	n amendments has NOT expired.	
d. have not been made and will not be made.			
8. An English language translation of the amendments to the claims under PCT Article 19 [35 U.S.C. 371(c)(3)].			
	e inventor(s) [35 U.S.C. 371(c)(4)].		
10. An English language translat	tion of the annexes of the International	Preliminary Examination Report under PCT	
	(5)]. c document(s) or information include	d:	
11. An Information Disclosure S	Statement under 37 CFR 1.97 and 1.98.		
 12. An assignment document for is included. 13. A preliminary amendment. 	recording. A separate cover sheet in o	compliance with 37 CFR 3.28 and 3.31	
14. An Application Data Sheet u	inder 37 CFR 1.76.		
15. A substitute specification.			
16. A power of attorney and/or of			
		th PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.	
18. A second copy of the published International Application under 35 U.S.C.154(d)(4).			
19. A second copy of the English	h language translation of the internation	nal application under 35 U.S.C.154(d)(4).	
20. Other items or information:			

Substitute for PTO-1390 (Rev. 07-2005) "Transmittal Letter to the United States Designated/Elected Office(DO/EO/US)Concerning a Submission Under Approved for use through 3/31/2007. OMB 0651-0021 INTERNATIONAL APPLICATION NO. U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

To Be Assigned ATTORNEY'S DOCKET NUMBER PC 1/US2004/031820 To Be Assigned 21421P The following fees are submitted: **CALCULATIONS** PTO USE ONLY Basic national fee.....\$300 \$300.00 Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report All other situations..... ..\$200 Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4).....\$0 Search fee [37 CFR 1.445(a)(2)] has been paid on the international application to the USPTO as an International Searching Authority......\$100 International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB\$400 All other situations......\$500 TOTAL OF 21, 22 and 23= \$300.00 Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. Number of each additional 50 or fraction **Total Sheets** Extra Sheets **RATE** thereof (round up to a whole number) -100 = 10 /50 0 = 0X \$250.00 \$0.00 Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date [37 CFR 1.492(e)]. **CLAIMS** NUMBER FILED **NUMBER EXTRA RATE Total Claims** 25 -20 =5 \$250.00 X \$50.00 Independent Claims X \$1,800.00 - 3 = \$200.00 12 9 MULTIPLE DEPENDENT CLAIM(S) (if applicable) \$360.00 \$2,350.00 TOTAL OF ABOVE CALCULATIONS (SUBTOTAL) = Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest + claimed priority date (37 CFR 1.492(f)). = \$2,350.00 TOTAL NATIONAL FEE Fee for recording the enclosed assignment [37 CFR 1.21(h)]. The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31).\$40.00 per property. TOTAL FEES ENCLOSED \$2,350.00 Amount to be refunded: Amount to be charged: A check in the amount of \$ _____ to cover the above fees is enclosed. Please charge my Deposit Account No. 13-2755 in the amount of \$2,350.00 to cover the above fees. A duplicate copy of this sheet is enclosed. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any C. overpayment to the Deposit Account No. 13-2755. A duplicate copy of this sheet is enclosed. NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive [37 CFR 1.137(a) or (b)] must be filed and granted to restore the International Application to pending status. SEND ALL CORRESPONDENCE TO: Customer No. 000210 MERCK & CO., INC. Patent Department, RY60-30 P.O. Box 2000 126 East Lincoln Avenue Rahway, New Jersey 07065-0970 Vineet Kohli **NAME** DATE: March 29, 2006

PHONE #: (732) 594-3889

<u>37,003</u>

REGISTRATION NUMBER

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Attorney Docket No.:	<u>21421P</u>
International Appln No.:	PCT/US2004/031820
International Filing Date:	28 September 2004
Priority Date:	2 October 2003
Title:	NUCLEIC ACID MOLECULES ENCODING NOVEL HUMAN LOW-VOLTAGE ACTIVATED CALCIUM CHANNEL PROTEINS, DESIGNATED -ALPHA 1I- AND ALPHA 1I-2, ENCODED PROTEINS AND METHODS OF USE THEREOF
Inventors:	MENGHANG XIA AND MARK E. WILLIAMS

EXPRESS MAIL CERTIFICATE
DATE OF DEPOSIT 3/29/56
EXPRESS MAIL NO. EL 989587258 US
I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING
DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS EXPRESS MAIL "POST OFFICE TO ADDRESSEE" ON THE ABOVE
DATE IN AN ENVELOPE ADDRESSED TO COMMISSIONER FOR PATENTS P.OnBOX 1450, ALEXANDRIA, VIRGINIA 22313-1450.
MAILED BY DING Zehrer DATE 3/29/06